Nuclear Instruments and Methods in Physics Research A 396 (1997) 431–437

ELSEVIER

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Author index

Adriani, O., E. Babucci, N. Bacchetta, G. Bagliesi, P. Bartalini, A. Basti, G.M. Bilei, D. Boemi, L. Borrello, F. Bosi, R. Castaldi, G. Castellini, E. Catacchini, U. Cazzola, B. Checcucci, C. Civinini, D. Creanza, R. D'Alessandro, M. De Palma, R. Dell'Orso, R. Della Marina, L. Fiore, E. Focardi, A. Gabbanini, A. Giassi, A. Giraldo, L. Gorn, M. Loreti, G. Maggi, G. Mantovani, M. Meschini, A. Messineo, S. My, G. Parrini, M. Pieri, F. Raffaelli, G. Raso, A. Santocchia, G. Selvaggi, L. Servoli, L. Silvestris, A. Skassyrskaia, F. Szoncso, P. Tempesta, M. Tesi, G. Tonelli, C. Vannini, P.G. Verdini and R. Wheadon, Beam test results for single- and double-sided silicon detector prototypes of the CMS central detector . . . 396 (1997) 76
Aksoy, A., see Al-Ohali, M.A. . . . 396 (1997) 388
Albernhe, F., see Naya. J.E. . . . 396 (1997) 374
Alcaraz, C., see Nahon, L. . . . 396 (1997) 237
Al-Ohali, M.A., A. Aksoy, A. Coban, J.M. Hanly, P.D. Felsher, C.R. Howell, W. Tornow, F. Salinas and R.L. Walter, Determination of the neutron detection efficiency of an NE213 scintillator for $E_n = 2.5$ to 16 MeV using the $^2H(d, n)^3He$ reaction . . . 396 (1997) 388
Amsler, C., M. Avenier, G. Bagieu, C. Barnoux, H.-W. Becker, R. Brissot, C. Broggini, J. Busto, J.-F. Cavaignac, J. Farine, D. Filippi, G. Gervasio, P. Giarritta, G. Grgić, B. G. Chaley, V. Joergens, D.H. Koang, D. Lebrun, R. Luescher, F. Mattioli, M. Negrello, F. Ould-Saada, A. Paić, O. Piovan, G. Puglierin, D. Schenker, A. Stutz, A. Tadsen, M. Treichel, J.-L. Vuilleumier and J.-M. Vuilleumier, The MUNU experiment, general description . 396 (1997) 115
Anghinolfi, M., M. Battaglieri, T. Botto, P. Cocconi, E. Durante, A. Longhi, F. Parodi, G. Ricco, M. Ripani and M. Taiuti, Clustered beams of light gases as internal target . . . 396 (1997) 23
Arakawa, K., see Fukuda, M. . . . 396 (1997) 45
Ärje, J., see Nakagawa, T. . . . 396 (1997) 9
Asami, A., see Suwada, T. . . . 396 (1997) 1
Avenier, M., see Amsler, C. . . . 396 (1997) 115

Babucci, E., see Adriani, O. . . . 396 (1997) 76
Bacchetta, N., see Adriani, O. . . . 396 (1997) 76
Bagieu, G., see Amsler, C. . . . 396 (1997) 115
Bagliesi, G., see Adriani, O. . . . 396 (1997) 76
Bailey, D.S., B. Foster, G.P. Heath, C.J.S. Morgado, N. Harnew, T. Khatri, M. Lancaster, I.C. McArthur, J.D. McFall, J. Nash, P.D. Shield, S. Topp-Jorgensen, F.F. Wilson, R.C. Carter, M.D. Jeffs, R. Milborrow, M.C. Morrissey, D.A. Phillips, S.P.H. Quinton, G. Westlake, D.J. White, J.B. Lane, G. Nixon and M. Postranecky, The design and performance of the ZEUS Central Tracking Detector z-by-timing system . . . 396 (1997) 320
Ball, G.C., see Svensson, C.E. . . . 396 (1997) 228
Barnes, Jr., P.D., see Pritychenko, B. . . . 396 (1997) 371
Barnoux, C., see Amsler, C. . . . 396 (1997) 115
Barret, D., see Lum, K.S.K. . . . 396 (1997) 350
Bartalini, P., see Adriani, O. . . . 396 (1997) 76
Barthelmy, S.D., see Naya. J.E. . . . 396 (1997) 374
Bartlett, L.M., see Naya. J.E. . . . 396 (1997) 374
Basti, A., see Adriani, O. . . . 396 (1997) 76
Battaglieri, M., see Anghinolfi, M. . . . 396 (1997) 23
Beck, G.A., A.A. Carter, J.R. Carter, N.M. Greenwood, A.D. Lucas, D.J. Munday, T.W. Pritchard, D. Robinson, C.D. Wilburn and K.H. Wyllie, Radiation-tolerant breakdown protection of silicon detectors using multiple floating guard rings . . . 396 (1997) 214
Becker, H.-W., see Amsler, C. . . . 396 (1997) 115
Bilei, G.M., see Adriani, O. . . . 396 (1997) 76
Boemi, D., see Adriani, O. . . . 396 (1997) 76
Bolotnikov, A. and B. Ramsey, The spectroscopic properties of high-pressure xenon . . . 396 (1997) 360
Borrel, V., see Naya. J.E. . . . 396 (1997) 374

0168-9002/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved

Borrello, L., see Adriani, O. . . . 396 (1997) 76
Bosi, F., see Adriani, O. . . . 396 (1997) 76
Botto, T., see Anghinolfi, M. . . . 396 (1997) 23
Bouclier, R., W. Dominik, M. Hoch, J.-C. Labbé, G. Million, L. Ropelewski, F. Sauli, A. Sharma and G. Manzin, New observations with the gas electron multiplier (GEM) . . . 396 (1997) 50
Bowyer, T.W., see Peurrung, A.J. . . . 396 (1997) 425
Bressi, G., G. Carugno, S. Cerdonio, E. Conti, A.T. Meneguzzo and D. Zanello, Calibration of a liquid xenon gamma ray detector for the study of radiative pion decay . . . 396 (1997) 67
Brissot, R., see Amsler, C. . . . 396 (1997) 115
Broggini, C., see Amsler, C. . . . 396 (1997) 115
Brunelle, P., see Nahon, L. . . . 396 (1997) 237
Bryman, D.A., M. Constable, J.V. Cresswell, A. Daviel, M. LeNoble, J. Mildenberger and R. Poutissou, 500 MHz transient digitizers based on GaAs CCDs . . . 396 (1997) 394
Busto, J., see Amsler, C. . . . 396 (1997) 115
Butler, J.F., Novel electrode design for single-carrier charge collection in semiconductor nuclear radiation detectors . . . 396 (1997) 427

Cameron, J.A., see Svensson, C.E. . . . 396 (1997) 228
Carlén, L., S. Garpman, H.-Å. Gustafsson, A. Oskarsson, I. Otterlund, E. Stenlund, T. Svensson and K. Söderström, Two-dimensional pixel readout of wire chambers . . . 396 (1997) 310
Carter, A.A., see Beck, G.A. . . . 396 (1997) 214
Carter, J.R., see Beck, G.A. . . . 396 (1997) 214
Carter, R.C., see Bailey, D.S. . . . 396 (1997) 320
Carugno, G., see Bressi, G. . . . 396 (1997) 67
Castaldi, R., see Adriani, O. . . . 396 (1997) 76
Castellini, G., see Adriani, O. . . . 396 (1997) 76
Catacchini, E., see Adriani, O. . . . 396 (1997) 76
Catford, W.N., see Winfield, J.S. . . . 396 (1997) 147
Cavaignac, J.-F., see Amsler, C. . . . 396 (1997) 115
Cazzola, U., see Adriani, O. . . . 396 (1997) 76
Cerdonio, S., see Bressi, G. . . . 396 (1997) 67
Cerron Zeballos, E., I. Crotty, D. Hatzifotiadou, J. Lamas Valverde, M.C.S. Williams and A. Zichichi, Pure avalanche mode operation of a 2 mm gap resistive plate chamber . . . 396 (1997) 93
Chaley, B.G, see Amsler, C. . . . 396 (1997) 115
Chappell, S.P.G., W.D.M. Rae and P.M. Simmons, Calibration of position sensitive detectors with low-energy elastic scattering . . . 396 (1997) 383
Checcucci, B., see Adriani, O. . . . 396 (1997) 76
Chiba, T., see Nakagawa, T. . . . 396 (1997) 9
Civinini, C., see Adriani, O. . . . 396 (1997) 76
Coban, A., see Al-Ohali, M.A. . . . 396 (1997) 388
Cocconi, P., see Anghinolfi, M. . . . 396 (1997) 23
Constable, M., see Bryman, D.A. . . . 396 (1997) 394
Conti, E., see Bressi, G. . . . 396 (1997) 67
Cordier, B., see Naya. J.E. . . . 396 (1997) 374
Corlier, M., see Nahon, L. . . . 396 (1997) 237
Craig, R.A., see Peurrung, A.J. . . . 396 (1997) 425
Creanza, D., see Adriani, O. . . . 396 (1997) 76
Cresswell, J.V., see Bryman, D.A. . . . 396 (1997) 394
Cromaz, M., see Svensson, C.E. . . . 396 (1997) 228
Crotty, I., see Cerron Zeballos, E. . . . 396 (1997) 93
Cummings, D.G., see Giglio, J.J. . . . 396 (1997) 251

D'Alessandro, R., see Adriani, O. . . . 396 (1997) 76
Daniel, H., see Torii, H.A. . . . 396 (1997) 257
Da Silva, A., see Pritychenko, B. . . . 396 (1997) 371
Daviel, A., see Bryman, D.A. . . . 396 (1997) 394
Dehnel, M.P., K.L. Erdman, L. Root and T. Kuo, The experimental characterization of a compact H^- cyclotron's spiral inflector . . . 396 (1997) 35
Della Marina, R., see Adriani, O. . . . 396 (1997) 76
Dell'Orso, R., see Adriani, O. . . . 396 (1997) 76
DELPHI Collaboration, Erratum to "Performance of the DELPHI detector" [Nucl. Instr. and Meth. A. 378 (1996) 57–100] . . . 396 (1997) 281

De Palma, M., see Adriani, O. . . . 396 (1997) 76
Dombeck, T.W., see Freedman, M.S. . . . 396 (1997) 181
Dominik, W., see Bouclier, R. . . . 396 (1997) 50
Drake, T.E., see Svensson, C.E. . . . 396 (1997) 228
Durante, E., see Anghinolfi, M. . . . 396 (1997) 23

Eades, J., see Torii, H.A. . . . 396 (1997) 257
Elmfors, P., A. Fassò, M. Huhtinen, M. Lindroos, J. Olsfors and U. Raich, Wire scanners in low energy accelerators . . . 396 (1997) 13
Erdman, K.L., see Dehnel, M.P. . . . 396 (1997) 35
Esposito, A., see Palmieri, V. . . . 396 (1997) 277

Faj, Z., see Planinić, J. . . . 396 (1997) 414
Farine, J., see Amsler, C. . . . 396 (1997) 115
Fassò, A., see Elmfors, P. . . . 396 (1997) 13
Felsher, P.D., see Al-Ohali, M.A. . . . 396 (1997) 388
Fernández-Marrón, J.L., see Garcia-Belmonte, G. . . . 396 (1997) 272
Filippi, D., see Amsler, C. . . . 396 (1997) 115
Fiore, L., see Adriani, O. . . . 396 (1997) 76
Flibotte, S., see Svensson, C.E. . . . 396 (1997) 228
Focardi, E., see Adriani, O. . . . 396 (1997) 76
Foster, B., see Bailey, D.S. . . . 396 (1997) 320
Freedman, M.S., G.R. Ringo and T.W. Dombeck, A proposed method for measuring the electric dipole moment of the neutron using acceleration in an electric-field gradient and ultracold neutron interferometry . . . 396 (1997) 181
Fukuda, M., S. Okumura and K. Arakawa, Simulation of spiral beam scanning for uniform irradiation on a large target . . . 396 (1997) 45

Gabbanini, A., see Adriani, O. . . . 396 (1997) 76
Galindo-Uribarri, A., see Svensson, C.E. . . . 396 (1997) 228
García-Toraño, E., J. Goñi and J.L. Gascón, Preparation and standardization of large-area sources for calibration of alpha-particle contamination monitors . . . 396 (1997) 130
Garcia-Belmonte, G., J.M. Pérez, J. Marín, J.L. Fernández-Marrón, Gaussian filter bank use for improving CZT-γ-ray detector spectroscopic response . . . 396 (1997) 272
Garpman, S., see Carlén, L. . . . 396 (1997) 310
Gascón, J.L., see García-Toraño, E. . . . 396 (1997) 130
Gascon-Shotkin, S., see Lauber, J.A. . . . 396 (1997) 165
Gehrels, N., see Naya. J.E. . . . 396 (1997) 374
Gervais, G., see Svensson, C.E. . . . 396 (1997) 228
Gervasio, G., see Amsler, C. . . . 396 (1997) 115
Giarritta, P., see Amsler, C. . . . 396 (1997) 115
Giassi, A., see Adriani, O. . . . 396 (1997) 76
Giglio, J.J., D.G. Cummings, M.M. Michlik, P.S. Goodall and S.G. Johnson, Determination of burnup in spent nuclear fuel by application of fiber optic high-resolution inductively coupled plasma atomic emission spectroscopy (FO-HR-ICP-AES) . . . 396 (1997) 251
Giraldo, A., see Adriani, O. . . . 396 (1997) 76
Godunowa, H., see Schwabe, J. . . . 396 (1997) 293
Goñi, J., see García-Toraño, E. . . . 396 (1997) 130
Goodall, P.S., see Giglio, J.J. . . . 396 (1997) 251
Gorn, L., see Adriani, O. . . . 396 (1997) 76
Goto, A., see Nakagawa, T. . . . 396 (1997) 9
Greenwood, N.M., see Beck, G.A. . . . 396 (1997) 214
Grgić, G., see Amsler, C. . . . 396 (1997) 115
Griffin, V.S., Dual capacity frames for an NEC type terminal foil stripper . . . 396 (1997) 423
Grindlay, J.E., see Lum, K.S.K. . . . 396 (1997) 350
Grishanov, B.I., F.V. Podgorny, J. Rümmler and V.D. Shiltsev, Very fast kicker with high repetition rate for accelerator applications . . . 396 (1997) 28
Gustafsson, H.-Å., see Carlén, L. . . . 396 (1997) 310

Hanly, J.M., see Al-Ohali, M.A. . . . 396 (1997) 388
Harnew, N., see Bailey, D.S. . . . 396 (1997) 320
Hartmann, F.J., see Torii, H.A. . . . 396 (1997) 257

Haslip, D.S., see Svensson, C.E. 396 (1997) 228
Hatzifotiadou, D., see Cerron Zeballos, E. 396 (1997) 93
Hayano, R.S., see Torii, H.A. 396 (1997) 257
Heath, G.P., see Bailey, D.S. 396 (1997) 320
Heinrich, J.G., see Kononenko, W. 396 (1997) 172
Hemmi, M., see Nakagawa, T. 396 (1997) 9
Hoch, M., see Bouclier, R. 396 (1997) 50
Horváth, D., see Torii, H.A. 396 (1997) 257
Hou, W.S., see Ueno, K. 396 (1997) 103
Howell, C.R., see Al-Ohali, M.A. 396 (1997) 388
Huhtinen, M., see Elmfors, P. 396 (1997) 13

Inabe, N., see Nakagawa, T. 396 (1997) 9

Janzen, V.P., see Svensson, C.E. 396 (1997) 228
Jean, P., see Naya. J.E. 396 (1997) 374
Jeffs, M.D., see Bailey, D.S. 396 (1997) 320
Joergens, V., see Amsler, C. 396 (1997) 115
Johnson, S.G., see Giglio, J.J. 396 (1997) 251

Kageyama, T., see Nakagawa, T. 396 (1997) 9
Kamigaito, O., see Nakagawa, T. 396 (1997) 9
Kase, M., see Nakagawa, T. 396 (1997) 9
Katase, A., see Yamamoto, H. 396 (1997) 418
Kellogg, R.G., see Lauber, J.A. 396 (1997) 165
Ketzer, B., see Torii, H.A. 396 (1997) 257
Khatri, T., see Bailey, D.S. 396 (1997) 320
Khrutchinsky, A.A., Yu.Yu. Lachin and V.I. Selivanov, A Monte-Carlo study of a precision magnetic spectrometer with planar geometry 396 (1997) 135
Koang, D.H., see Amsler, C. 396 (1997) 115
Kobayashi, H., see Suwada, T. 396 (1997) 1
Kononenko, W., J.G. Heinrich, N.S. Lockyer, J.M. Miller, C. Woody and S. Kwan, Photon emission from 511 keV gamma rays incident on BaF_2 and $LaF_3:Nd^{3+}$ crystals using a cesium iodide photocathode detector 396 (1997) 172
Kumakura, M., see Torii, H.A. 396 (1997) 257
Kuo, T., see Dehnel, M.P. 396 (1997) 35
Kurzbauer, W. and B. Lofstedt, Investigations of the dynamic compression principle for fast detector pulses . . 396 (1997) 198
Kwan, S., see Kononenko, W. 396 (1997) 172

Labbé, J.-C., see Bouclier, R. 396 (1997) 50
Lachin, Yu.Yu., see Khrutchinsky, A.A. 396 (1997) 135
Lai, R., see Schneider, G. 396 (1997) 283
Lamas Valverde, J., see Cerron Zeballos, E. 396 (1997) 93
Lancaster, M., see Bailey, D.S. 396 (1997) 320
Lane, J.B., see Bailey, D.S. 396 (1997) 320
Lauber, J.A., S. Gascon-Shotkin, R.G. Kellogg and G.R. Martinez, Energy dependence of damage to Si PIN diodes exposed to β radiation 396 (1997) 165
Lavigne, J.M., see Naya. J.E. 396 (1997) 374
Lebrun, D., see Amsler, C. 396 (1997) 115
Leleux, P., see Naya. J.E. 396 (1997) 374
LeNoble, M., see Bryman, D.A. 396 (1997) 394
Lindroos, M., see Elmfors, P. 396 (1997) 13
Lockyer, N.S., see Kononenko, W. 396 (1997) 172
Lofstedt, B., see Kurzbauer, W. 396 (1997) 198
Longhi, A., see Anghinolfi, M. 396 (1997) 23
Loreti, M., see Adriani, O. 396 (1997) 76
Lucas, A.D., see Beck, G.A. 396 (1997) 214
Luescher, R., see Amsler, C. 396 (1997) 115
Lum, K.S.K., J.J. Mohr, D. Barret, J.E. Grindlay, and R.P. Manandhar, Simulations and measurements of the background encountered by a high-altitude balloon-borne experiment for hard X-ray astronomy 396 (1997) 350

Maas, F.E., see Torii, H.A. 396 (1997) 257
Maggi, G., see Adriani, O. 396 (1997) 76

Manandhar, R.P., see Lum, K.S.K. . . . 396 (1997) 350
Mantovani, G., see Adriani, O. . . . 396 (1997) 76
Manzin, G., see Bouclier, R. . . . 396 (1997) 50
Marcouillé, O., see Nahon, L. . . . 396 (1997) 237
Marín, J., see Garcia-Belmonte, G. . . . 396 (1997) 272
Marteau, F., see Nahon, L. . . . 396 (1997) 237
Martinez, G.R., see Lauber, J.A. . . . 396 (1997) 165
Masuda, H., see Torii, H.A. . . . 396 (1997) 257
Mattioli, F., see Amsler, C. . . . 396 (1997) 115
McArthur, I.C., see Bailey, D.S. . . . 396 (1997) 320
McFall, J.D., see Bailey, D.S. . . . 396 (1997) 320
Meneguzzo, A.T., see Bressi, G. . . . 396 (1997) 67
Meschini, M., see Adriani, O. . . . 396 (1997) 76
Messineo, A., see Adriani, O. . . . 396 (1997) 76
Michlik, M.M., see Giglio, J.J. . . . 396 (1997) 251
Milborrow, R., see Bailey, D.S. . . . 396 (1997) 320
Mildenberger, J., see Bryman, D.A. . . . 396 (1997) 394
Miller, J.M., see Kononenko, W. . . . 396 (1997) 172
Million, G., see Bouclier, R. . . . 396 (1997) 50
Miyazawa, Y., see Nakagawa, T. . . . 396 (1997) 9
Mohr, J.J., see Lum, K.S.K. . . . 396 (1997) 350
Morgado, C.J.S., see Bailey, D.S. . . . 396 (1997) 320
Morita, N. see Torii, H.A. . . . 396 (1997) 257
Morrissey, M.C., see Bailey, D.S. . . . 396 (1997) 320
Müller, W., see Torii, H.A. . . . 396 (1997) 257
Munday, D.J., see Beck, G.A. . . . 396 (1997) 214
My, S., see Adriani, O. . . . 396 (1997) 76

Nahon, L., M. Corlier, P. Peaupardin, F. Marteau, O. Marcouillé, P. Brunelle, C. Alcaraz and P. Thiry, A versatile electromagnetic planar/helical crossed undulator optimized for the SU5 low energy/high resolution beamline at Super-ACO . . . 396 (1997) 237
Nakagawa, T., J. Ärje, Y. Miyazawa, M. Hemmi, T. Chiba, N. Inabe, M. Kase, T. Kageyama, O. Kamigaito, A. Goto, M.G. Niimura and Y. Yano, Production of highly charged metal ion beams from organic metal compounds at RIKEN 18 GHz ECRIS . . . 396 (1997) 9
Nash, J., see Bailey, D.S. . . . 396 (1997) 320
Naya, J.E., P. Jean, F. Albernhe, S.D. Barthelmy, L.M. Bartlett, V. Borrel, B. Cordier, N. Gehrels, J.M. Lavigne, P. Leleux, A. Parsons, B.J. Teegarden, J. Tueller, G. Vedrenne and P. von Ballmoos, Neutron induced activity in nautral and enriched ^{70}Ge detectors . . . 396 (1997) 374
Negrello, M., see Amsler, C. . . . 396 (1997) 115
Nieminen, J.M., see Svensson, C.E. . . . 396 (1997) 228
Niimura, N., see Nakagawa, T. . . . 396 (1997) 9
Nixon, G., see Bailey, D.S. . . . 396 (1997) 320
Norimura, T., see Yamamoto, H. . . . 396 (1997) 418

Okumura, S., see Fukuda, M. . . . 396 (1997) 45
Olsfors, J., see Elmfors, P. . . . 396 (1997) 13
Orr, N.A., see Winfield, J.S. . . . 396 (1997) 147
Oskarsson, A., see Carlén, L. . . . 396 (1997) 310
Otterlund, I., see Carlén, L. . . . 396 (1997) 310
Ould-Saada, F., see Amsler, C. . . . 396 (1997) 115

Paić, A., see Amsler, C. . . . 396 (1997) 115
Palmieri, V., and A. Esposito, Hybrid superconducting pixel detector . . . 396 (1997) 277
Parodi, F., see Anghinolfi, M. . . . 396 (1997) 23
Parrini, G., see Adriani, O. . . . 396 (1997) 76
Parsons, A., see Naya. J.E. . . . 396 (1997) 374
Peaupardin, P., see Nahon, L. . . . 396 (1997) 237
Peng, K.C., see Ueno, K. . . . 396 (1997) 103
Pérez, J.M., see Garcia-Belmonte, G. . . . 396 (1997) 272
Peurrung, A.J., T.W. Bowyer, R.A. Craig and P.L. Reeder, Expected atmospheric concentration of ^{42}Ar 396 (1997) 425
Phillips, D.A., see Bailey, D.S. . . . 396 (1997) 320

Pieri, M., see Adriani, O. 396 (1997) 7
Piovan, O., see Amsler, C. 396 (1997) 11
Planinić, J., V. Radolić, Z. Faj and B. Šuveljak, Radon equilibrium factor and aerosols 396 (1997) 41
Podgorny, F.V., see Grishanov, B.I. 396 (1997) 2
Postranecky, M., see Bailey, D.S. 396 (1997) 32
Poutissou, R., see Bryman, D.A. 396 (1997) 39
Pritchard, T.W., see Beck, G.A. 396 (1997) 21
Pritychenko, B., A. Da Silva, A. Smith, P.D. Barnes, Jr., B. Sadoulet, Experimental measurements with a LiF(W) scintillator 396 (1997) 37
Puglierin, G., see Amsler, C. 396 (1997) 11

Quinton, S.P.H., see Bailey, D.S. 396 (1997) 32

Radford, D.C., see Svensson, C.E. 396 (1997) 22
Radolić, V., see Planinić, J. 396 (1997) 41
Rae, W.D.M., see Chappell, S.P.G. 396 (1997) 38
Raffaelli, F., see Adriani, O. 396 (1997) 7
Raich, U., see Elmfors, P. 396 (1997) 1
Ramsey, B., see Bolotnikov, A. 396 (1997) 36
Raso, G., see Adriani, O. 396 (1997) 7
Re, V., A fast JFET-CMOS-SIMOX multichannel amplifier system for tracking detectors 396 (1997) 40
Reeder, P.L., see Peurrung, A.J. 396 (1997) 42
Ricco, G., see Anghinolfi, M. 396 (1997) 2
Ringo, G.R., see Freedman, M.S. 396 (1997) 18
Ripani, M., see Anghinolfi, M. 396 (1997) 2
Robinson, D., see Beck, G.A. 396 (1997) 21
Root, L., see Dehnel, M.P. 396 (1997) 3
Ropelewski, L., see Bouclier, R. 396 (1997) 5
Rümmler, J., see Grishanov, B.I. 396 (1997) 2

Sadoulet, B., see Pritychenko, B. 396 (1997) 37
Sahu, S.K., see Ueno, K. 396 (1997) 10
Salinas, F., see Al-Ohali, M.A. 396 (1997) 38
Santocchia, A., see Adriani, O. 396 (1997) 7
Sauli, F., see Bouclier, R. 396 (1997) 5
Schenker, D., see Amsler, C. 396 (1997) 11
Schmid, W., see Torii, H.A. 396 (1997) 25
Schneider, G., R. Lai, W. Walecki and A.J. Sievers, On using the coherent far IR radiation produced by a charged particle bunch to determine its shape – II Measurement with synchrotron and transition radiation 396 (1997) 28
Schwabe, J. and H. Godunowa, Vacuum dissociation at acceleration of H^-, D^- beams on the AIC-144 S cyclotron 396 (1997) 29
Selivanov, V.I., see Khrutchinsky, A.A. 396 (1997) 13
Selvaggi, G., see Adriani, O. 396 (1997) 7
Servoli, L., see Adriani, O. 396 (1997) 7
Sharapa, A.N. and A.V. Shemyakin, Secondary electron flow from the axially symmetric collector without magnetic field 396 (1997) 11
Sharma, A., see Bouclier, R. 396 (1997) 5
Shemyakin, A.V., see Sharapa, A.N. 396 (1997) 11
Shield, P.D., see Bailey, D.S. 396 (1997) 32
Shiltsev, V.D., see Grishanov, B.I. 396 (1997) 2
Sievers, A.J., see Schneider, G. 396 (1997) 28
Silvestris, L., see Adriani, O. 396 (1997) 7
Simmons, P.M., see Chappell, S.P.G. 396 (1997) 38
Skassyrskaia, A., see Adriani, O. 396 (1997) 7
Smith, A., see Pritychenko, B. 396 (1997) 37
Söderström, K., see Carlén, L. 396 (1997) 31
Stenlund, E., see Carlén, L. 396 (1997) 31
Stutz, A., see Amsler, C. 396 (1997) 11
Sugai, I., see Torii, H.A. 396 (1997) 25
Šuveljak, B., see Planinić, J. 396 (1997) 41
Suwada, T., K. Tamiya, T. Urano, H. Kobayashi and A. Asami, New analysis and performance of a wall-current monitor 396 (1997)

Svensson, C.E., J.A. Cameron, S. Flibotte, G. Gervais, D.S. Haslip, J.M. Nieminen, J.C. Waddington, J.N. Wilson, G.C. Ball, A. Galindo-Uribarri, V.P. Janzen, D.C. Radford, D. Ward, M. Cromaz and T.E. Drake, Channel selection for high spin γ-ray spectroscopy studies via total energy measurements in fusion-evaporation reactions . . . 396 (1997) 228
Svensson, T., see Carlén, L. . . . 396 (1997) 310
Szoncso, F., see Adriani, O. . . . 396 (1997) 76

Tadsen, A., see Amsler, C. . . . 396 (1997) 115
Taiuti, M., see Anghinolfi, M. . . . 396 (1997) 23
Tamiya, K., see Suwada, T. . . . 396 (1997) 1
Teegarden, B.J., see Naya. J.E. . . . 396 (1997) 374
Tempesta, P., see Adriani, O. . . . 396 (1997) 76
Tesi, M., see Adriani, O. . . . 396 (1997) 76
Thiry, P., see Nahon, L. . . . 396 (1997) 237
Tonelli, G., see Adriani, O. . . . 396 (1997) 76
Topp-Jorgensen, S., see Bailey, D.S. . . . 396 (1997) 320
Torii, H.A., R.S. Hayano, F.E. Maas, N. Morita, M. Kumakura, T. Yamazaki, H. Masuda, I. Sugai, B. Ketzer, F.J. Hartmann, H. Daniel, T. von Egidy, W. Müller, W. Schmid, D. Horváth, J. Eades and E. Widmann, Instrumentation for laser-induced annihilation spectroscopy of metastable antiprotonic helium atoms . . . 396 (1997) 257
Tornow, W., see Al-Ohali, M.A. . . . 396 (1997) 388
Treichel, M., see Amsler, C. . . . 396 (1997) 115
Tueller, J., see Naya. J.E. . . . 396 (1997) 374

Ueno, K., S.K. Sahu, K.C. Peng, W.S. Hou and C.H. Wang, Detection of minimum-ionizing particles and nuclear counter effect with pure BGO and BSO crystals with photodiode readout . . . 396 (1997) 103
Urano, T., see Suwada, T. . . . 396 (1997) 1

Vannini, C., see Adriani, O. . . . 396 (1997) 76
Vedrenne, G., see Naya. J.E. . . . 396 (1997) 374
Verdini, P.G., see Adriani, O. . . . 396 (1997) 76
von Ballmoos, P., see Naya. J.E. . . . 396 (1997) 374
von Egidy, T., see Torii, H.A. . . . 396 (1997) 257
Vuilleumier, J.-L., see Amsler, C. . . . 396 (1997) 115
Vuilleumier, J.-M., see Amsler, C. . . . 396 (1997) 115

Waddington, J.C., see Svensson, C.E. . . . 396 (1997) 228
Walecki, W., see Schneider, G. . . . 396 (1997) 283
Walter, R.L., see Al-Ohali, M.A. . . . 396 (1997) 388
Wang, C.H., see Ueno, K. . . . 396 (1997) 103
Ward, D., see Svensson, C.E. . . . 396 (1997) 228
Westlake, G., see Bailey, D.S. . . . 396 (1997) 320
Wheadon, R., see Adriani, O. . . . 396 (1997) 76
White, D.J., see Bailey, D.S. . . . 396 (1997) 320
Widmann, E., see Torii, H.A. . . . 396 (1997) 257
Wilburn, C.D., see Beck, G.A. . . . 396 (1997) 214
Williams, M.C.S., see Cerron Zeballos, E. . . . 396 (1997) 93
Wilson, J.N., see Svensson, C.E. . . . 396 (1997) 228
Wilson, F.F., see Bailey, D.S. . . . 396 (1997) 320
Winfield, J.S., W.N. Catford and N.A. Orr, Neutron transfer reactions with radioactive beams . . . 396 (1997) 147
Woody, C., see Kononenko, W. . . . 396 (1997) 172
Wyllie, K.H., see Beck, G.A. . . . 396 (1997) 214

Yamamoto, H., T. Norimura and A. Katase, Effects of the anisotropy of β-ray emission from a sealed source on the detection efficiency . . . 396 (1997) 418
Yamazaki, T., see Torii, H.A. . . . 396 (1997) 257
Yano, Y., see Nakagawa, T. . . . 396 (1997) 9

Zanello, D., see Bressi, G. . . . 396 (1997) 67
Zichichi, A., see Cerron Zeballos, E. . . . 396 (1997) 93

Nuclear Instruments and Methods in Physics Research A 396 (1997) 439–441

ELSEVIER

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Subject index

Accelerators, Beam Handling and Targets

New analysis and performance of a wall-current monitor, T. Suwada, K. Tamiya, T. Urano, H. Kobayashi and A. Asami . . . 396 (1997) 1
Production of highly charged metal ion beams from organic metal compounds at RIKEN 18 GHz ECRIS, T. Nakagawa, J. Ärje, Y. Miyazawa, M. Hemmi, T. Chiba, N. Inabe, M. Kase, T. Kageyama, O. Kamigaito, A. Goto, M.G. Niimura and Y. Yano . . . 396 (1997) 9
Wire scanners in low energy accelerators, P. Elmfors, A. Fassò, M. Huhtinen, M. Lindroos, J. Olsfors and U. Raich 396 (1997) 13
Clustered beams of light gases as internal target, M. Anghinolfi, M. Battaglieri, T. Botto, P. Cocconi, E. Durante, A. Longhi, F. Parodi, G. Ricco, M. Ripani and M. Taiuti . . . 396 (1997) 23
Very fast kicker with high repetition rate for accelerator applications, B.I. Grishanov, F.V. Podgorny, J. Rümmler and V.D. Shiltsev . . . 396 (1997) 28
The experimental characterization of a compact H^- cyclotron's spiral inflector, M.P. Dehnel, K.L. Erdman, L. Root and T. Kuo . . . 396 (1997) 35
Simulation of spiral beam scanning for uniform irradiation on a large target, M. Fukuda, S. Okumura and K. Arakawa . . . 396 (1997) 45
On using the coherent far IR radiation produced by a charged particle bunch to determine its shape – II Measurement with synchrotron and transition radiation, G. Schneider, R. Lai , W. Walecki and A.J. Sievers 396 (1997) 283
Vacuum dissociation at acceleration of H^-, D^- beams on the AIC-144 S cyclotron, J. Schwabe and H. Godunowa . . . 396 (1997) 293
Dual capacity frames for an NEC type terminal foil stripper, V.S. Griffin (*Letter to the Editor*) . . . 396 (1997) 423

High Energy Physics Detectors

New observations with the gas electron multiplier (GEM), R. Bouclier, W. Dominik, M. Hoch, J.-C. Labbé, G. Million, L. Ropelewski, F. Sauli, A. Sharma and G. Manzin . . . 396 (1997) 50
Calibration of a liquid xenon gamma ray detector for the study of radiative pion decay, G. Bressi, G. Carugno, S. Cerdonio, E. Conti, A.T. Meneguzzo and D. Zanello . . . 396 (1997) 67
Beam test results for single- and double-sided silicon detector prototypes of the CMS central detector, O. Adriani, E. Babucci, N. Bacchetta, G. Bagliesi, P. Bartalini, A. Basti, G.M. Bilei, D. Boemi, L. Borrello, F. Bosi, R. Castaldi, G. Castellini, E. Catacchini, U. Cazzola, B. Checcucci, C. Civinini, D. Creanza, R. D'Alessandro, M. De Palma, R. Dell'Orso, R. Della Marina, L. Fiore, E. Focardi, A. Gabbanini, A. Giassi, A. Giraldo, L. Gorn, M. Loreti, G. Maggi, G. Mantovani, M. Meschini, A. Messineo, S. My, G. Parrini, M. Pieri, F. Raffaelli, G. Raso, A. Santocchia, G. Selvaggi, L. Servoli, L. Silvestris, A. Skassyrskaia, F. Szoncso, P. Tempesta, M. Tesi, G. Tonelli, C. Vannini, P.G. Verdini and R. Wheadon . . . 396 (1997) 76
Pure avalanche mode operation of a 2 mm gap resistive plate chamber, E. Cerron Zeballos, I. Crotty, D. Hatzifotiadou, J. Lamas Valverde, M.C.S. Williams and A. Zichichi . . . 396 (1997) 93
Detection of minimum-ionizing particles and nuclear counter effect with pure BGO and BSO crystals with photodiode readout, K. Ueno, S.K. Sahu, K.C. Peng, W.S. Hou and C.H. Wang . . . 396 (1997) 103
Two-dimensional pixel readout of wire chambers, L. Carlén, S. Garpman, H.-Å. Gustafsson, A. Oskarsson, I. Otterlund, E. Stenlund, T. Svensson and K. Söderström . . . 396 (1997) 310

High Energy Physics Systems

Secondary electron flow from the axially symmetric collector without magnetic field, A.N. Sharapa and A.V. Shemyakin . . . 396 (1997) 110
The design and performance of the ZEUS Central Tracking Detector *z*-by-timing system, D.S. Bailey, B. Foster, G.P. Heath, C.J.S. Morgado, N. Harnew, T. Khatri, M. Lancaster, I.C. McArthur, J.D. McFall, J. Nash, P.D. Shield, S. Topp-Jorgensen, F.F. Wilson, R.C. Carter, M.D. Jeffs, R. Milborrow, M.C. Morrissey, D.A. Phillips, S.P.H. Quinton, G. Westlake, D.J. White, J.B. Lane, G. Nixon and M. Postranecky . . . 396 (1997) 320

0168-9002/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved

Space Radiation and Neutrino Detectors

The MUNU experiment, general description, C. Amsler, M. Avenier, G. Bagieu, C. Barnoux, H.-W. Becker, R. Brissot, C. Broggini, J. Busto, J.-F. Cavaignac, J. Farine, D. Filippi, G. Gervasio, P. Giarritta, G. Grgić, B. G. Chaley, V. Joergens, D.H. Koang, D. Lebrun, R. Luescher, F. Mattioli, M. Negrello, F. Ould-Saada, A. Paić, O. Piovan, G. Puglierin, D. Schenker, A. Stutz, A. Tadsen, M. Treichel, J.-L. Vuilleumier and J.-M. Vuilleumier 396 (1997) 115
Simulations and measurements of the background encountered by a high-altitude balloon-borne experiment for hard X-ray astronomy, K.S.K. Lum, J.J. Mohr, D. Barret, J.E. Grindlay, R.P. Manandhar 396 (1997) 350
Expected atmospheric concentration of ^{42}Ar, A.J. Peurrung, T.W. Bowyer, R.A. Craig and P.L. Reeder (*Letter to the Editor*) 396 (1997) 425

Nuclear Spectroscopy

Preparation and standardization of large-area sources for calibration of alpha-particle contamination monitors, E. García-Toraño, J. Goñi and J.L. Gascón 396 (1997) 130
A Monte-Carlo study of a precision magnetic spectrometer with planar geometry, A.A. Khrutchinsky, Yu.Yu. Lachin and V.I. Selivanov 396 (1997) 135
Neutron transfer reactions with radioactive beams, J.S. Winfield, W.N. Catford and N.A. Orr 396 (1997) 147
Gaussian filter bank use for improving CZT-γ-ray detector spectroscopic response, G. García-Belmonte, J.M. Pérez, J. Marín and J.L. Fernández-Marrón (*Letter to the Editor*) 396 (1997) 272
Hybrid superconducting pixel detector, V. Palmieri and A. Esposito (*Letter to the Editor*) 396 (1997) 277

Gamma, X-ray and Charged Particle Detectors

Energy dependence of damage to Si PIN diodes exposed to β radiation, J.A. Lauber, S. Gascon-Shotkin, R.G. Kellogg and G.R. Martinez 396 (1997) 165
Photon emission from 511 keV gamma rays incident on BaF_2 and $LaF_3:Nd^{3+}$ crystals using a cesium iodide photocathode detector, W. Kononenko, J.G. Heinrich, N.S. Lockyer, J.M. Miller, C. Woody and S. Kwan 396 (1997) 172
The spectroscopic properties of high-pressure xenon, A. Bolotnikov and B. Ramsey 396 (1997) 360
Experimental measurements with a LiF(W) scintillator, B. Pritychenko, A. Da Silva, A. Smith, P.D. Barnes, Jr., B. Sadoulet 396 (1997) 371
Neutron induced activity in nautral and enriched ^{70}Ge detectors, J.E. Naya, P. Jean, F. Albernhe, S.D. Barthelmy, L.M. Bartlett, V. Borrel, B. Cordier, N. Gehrels, J.M. Lavigne, P. Leleux, A. Parsons, B.J. Teegarden, J. Tueller, G. Vedrenne and P. von Ballmoos 396 (1997) 374
Calibration of position sensitive detectors with low-energy elastic scattering, S.P.G. Chappell, W.D.M. Rae and P.M. Simmons 396 (1997) 383

Neutron Physics

A proposed method for measuring the electric dipole moment of the neutron using acceleration in an electric-field gradient and ultracold neutron interferometry, M.S. Freedman, G.R. Ringo and T.W. Dombeck 396 (1997) 181
Determination of the neutron detection efficiency of an NE213 scintillator for $E_n = 2.5$ to 16 MeV using the ^{2}H(d, n)^{3}He reaction, M.A. Al-Ohali, A. Aksoy, A. Coban, J.M. Hanly, P.D. Felsher, C.R. Howell, W. Tornow, F. Salinas and R.L. Walter 396 (1997) 388

Electronics

Investigations of the dynamic compression principle for fast detector pulses, W. Kurzbauer and B. Lofstedt 396 (1997) 198
Radiation-tolerant breakdown protection of silicon detectors using multiple floating guard rings, G.A. Beck, A.A. Carter, J.R. Carter, N.M. Greenwood, A.D. Lucas, D.J. Munday, T.W. Pritchard, D. Robinson, C.D. Wilburn and K.H. Wyllie 396 (1997) 214
500 MHz transient digitizers based on GaAs CCDs, D.A. Bryman, M. Constable, J.V. Cresswell, A. Daviel, M. LeNoble, J. Mildenberger and R. Poutissou 396 (1997) 394
A fast JFET-CMOS-SIMOX multichannel amplifier system for tracking detectors, V. Re 396 (1997) 405
Novel electrode design for single-carrier charge collection in semiconductor nuclear radiation detectors, J.F. Butler (*Letter to the Editor*) 396 (1997) 427

Medical Applications and Dosimetry

Channel selection for high spin γ-ray spectroscopy studies via total energy measurements in fusion-evaporation reactions, C.E. Svensson, J.A. Cameron, S. Flibotte, G. Gervais, D.S. Haslip, J.M. Nieminen, J.C. Waddington, J.N. Wilson, G.C. Ball, A. Galindo-Uribarri, V.P. Janzen, D.C. Radford, D. Ward, M. Cromaz and T.E. Drake 396 (1997) 228
Radon equilibrium factor and aerosols, J. Planinić, V. Radolić, Z. Faj and B. Šuveljak 396 (1997) 414

Synchrotron Radiation Research

A versatile electromagnetic planar/helical crossed undulator optimized for the SU5 low energy/high resolution beamline at Super-ACO, L. Nahon, M. Corlier, P. Peaupardin, F. Marteau, O. Marcouillé, P. Brunelle, C. Alcaraz and P. Thiry 396 (1997) 237

Special Applications

Determination of burnup in spent nuclear fuel by application of fiber optic high-resolution inductively coupled plasma atomic emission spectroscopy (FO-HR-ICP-AES), J.J. Giglio, D.G. Cummings, M.M. Michlik, P.S. Goodall and S.G. Johnson 396 (1997) 251
Instrumentation for laser-induced annihilation spectroscopy of metastable antiprotonic helium atoms, H.A. Torii, R.S. Hayano, F.E. Maas, N. Morita, M. Kumakura, T. Yamazaki, H. Masuda, I. Sugai, B. Ketzer, F.J. Hartmann, H. Daniel, T. von Egidy, W. Müller, W. Schmid, D. Horváth, J. Eades and E. Widmann 396 (1997) 257
Effects of the anisotropy of β-ray emission from a sealed source on the detection efficiency, H. Yamamoto, T. Norimura and A. Katase 396 (1997) 418

Letters to the Editor

Gaussian filter bank use for improving CZT-γ-ray detector spectroscopic response, G. Garcia-Belmonte, J.M. Pérez, J. Marín and J.L. Fernández-Marrón 396 (1997) 272
Hybrid superconducting pixel detector, V. Palmieri and A. Esposito 396 (1997) 277
Dual capacity frames for an NEC type terminal foil stripper, V.S. Griffin 396 (1997) 423
Expected atmospheric concentration of ^{42}Ar, A.J. Peurrung, T.W. Bowyer, R.A. Craig and P.L. Reeder 396 (1997) 425
Novel electrode design for single-carrier charge collection in semiconductor nuclear radiation detectors, J.F. Butler 396 (1997) 427

Erratum

Erratum to "Performance of the DELPHI detector" [Nucl. Instr. and Meth. A. 378 (1996) 57–100], DELPHI Collaboration 396 (1997) 281